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Nov 28, 1996

DERWENT-ACC-NO: 1997-021257

DERWENT-WEEK: 199713

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TITLE: Air barrier laminate for installation in roofs to prevent convection heat losses - has at least one non-porous, water vapour permeable layer contg. co:polyetherester, polyurethane and/or co:polyetheramide based polymers

INVENTOR: MADEREK, E ; SPIJKERS, J C W ; VAN DE VEN, H J M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AKZO NOBEL NV

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PRIORITY-DATA: 1995DE-1018686 (May 22, 1995)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>WO 9637668 A1</u>	November 28, 1996	G	030	E04D012/00
<input type="checkbox"/> <u>AU 9658953 A</u>	December 11, 1996		000	E04D012/00

DESIGNATED-STATES: AL AM AU BB BG BR CA CN CZ EE FI GE HU IS JP KG KP KR LK LR LT LV MD MG MK MN MX NO NZ PL RO SG SI SK TR TT UA US UZ VN AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

CITED-DOCUMENTS: 2.Jnl.Ref ; DE 4221562 ; DE 4322745 ; DE 8601670 ; EP 167714 ; EP 169308 ; EP 183266 ; EP 708212 ; JP 04090337

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9637668A1	May 11, 1996	1996WO-EP02028	
AU 9658953A	May 11, 1996	1996AU-0058953	
AU 9658953A		WO 9637668	Based on

INT-CL (IPC): B32 B 27/12; D06 N 7/00; E04 D 12/00

ABSTRACTED-PUB-NO: WO 9637668A

BASIC-ABSTRACT:

Air barrier laminate for installation in roofs to prevent convection heat losses

and to improve the room climate, comprises a laminate with at least one non-porous, water-tight, water vapour permeable functional layer contg. copolyetherester, polyurethane and/or copolyetheramide based polymers.

Also claimed is the use of such air barriers in roofs and a method for installing the air barrier in heat insulated ventilated or non-ventilated inclined roofs.

Pref. the functional layer may comprise a foil, a film, and/or a pref. thread- or lattice-reinforced support layer, esp. a non-woven fabric, a felt, a knitted fabric and/or a woven fabric. The support layer may be impregnated or coated with the polymer. The support layer is permeable to water vapour, esp. porous, and is eg a nonwoven fabric, felt, and/or woven fabric of natural or synthetic fibres such as cotton, linen, jute, hemp, sisal, regenerated or modified cellulose fibres, mineral fibres, polyester, polyamide, polyacrylic or PVC fibres or mixts. of these

ADVANTAGE - The air barriers prevent convection heat losses and prevent the ingress of components from the heat insulation layer in the roof while being permeable to water vapour, thus avoiding the formation of condensation water when the room temp. falls. This overcomes problems of water being absorbed into the timbers where it can act as host to rot- causing fungi and insects and lead to movement of the wood, which can cause cracking and distortion. This allows timber to be used that has not been treated with wood preservatives which can cause a build up of toxic vapours in the living space of the building. The air barrier laminates have good resistance to tearing so that they withstand wind forces well.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: AIR BARRIER LAMINATE INSTALLATION ROOF PREVENT CONVECTION HEAT LOSS ONE NON POROUS WATER VAPOUR PERMEABLE LAYER CONTAIN CO POLYESTERETHER POLYURETHANE CO POLYETHERAMIDE BASED POLYMER

DERWENT-CLASS: A23 A25 A93 F08 P73 Q45

CPI-CODES: A05-E09; A05-F01E; A05-G01E; A05-H01B; A12-R05; A12-R06; F04-E06;

#### ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; H0260 ; P0635\*R F70 D01 ; P0964\*R F34 D01 ; S9999 S1285\*R  
 Polymer Index [1.2] 018 ; P1592\*R F77 D01 ; S9999 S1285\*R Polymer Index [1.3] 018 ;  
 D01 D11 D10 D50 D82 D83 D84 F34 ; G1343\*R G1310 G4024 D01 D60 F37 F35 E00 ; R00702  
 G1343 G1310 G4024 D01 D19 D18 D31 D50 D60 D76 D88 F37 F35 E00 E21 ; R01489 G1343  
 G1310 G4024 D01 D20 D18 D32 D50 D60 D78 D92 F37 F35 E00 E22 ; G1025\*R G0997 D01 F28  
 F26 D11 D10 D50 D82 D83 D84 ; R00908 G1036 G1025 G0997 D01 D11 D10 D50 D84 F28  
 F26 ; P0953 P0839 P0964 H0260 F34 F41 D01 D63 ; H0044\*R H0011 ; S9999 S1285\*R ;  
 H0293 Polymer Index [1.4] 018 ; ND01 ; K9416 ; Q9999 Q6860 Q6826 ; Q9999 Q9143 ;  
 Q9999 Q6780 ; K9518 K9483 ; K9483\*R ; K9676\*R ; K9905 ; B9999 B4182 B4091 B3838  
 B3747 ; N9999 N5709 ; N9999 N5721\*R ; K9530 K9483 Polymer Index [1.5] 018 ; K9892 ;  
 B9999 B4864 B4853 B4740 ; B9999 B4875 B4853 B4740 ; B9999 B5141 B4740 ; K9745\*R ;  
 Q9999 Q7114\*R Polymer Index [1.6] 018 ; D00 ; A999 A419 ; S9999 S1172 S1161 S1070 ;  
 S9999 S1183 S1161 S1070 ; S9999 S1194 S1161 S1070 ; A999 A771 Polymer Index [2.1]  
 018 ; P0000 Polymer Index [2.2] 018 ; ND01 ; K9416 ; Q9999 Q6860 Q6826 ; Q9999  
 Q9143 ; Q9999 Q6780 ; K9518 K9483 ; K9483\*R ; K9676\*R ; K9905 ; B9999 B4182 B4091  
 B3838 B3747 ; N9999 N5709 ; N9999 N5721\*R ; K9530 K9483 Polymer Index [2.3] 018 ;  
 Q9999 Q6644\*R Polymer Index [3.1] 018 ; R01852\*R G3634 D01 D03 D11 D10 D23 D22 D31  
 D42 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 G3623 ; R24078 R01852 G3634 G3623 D01  
 D03 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29 F26 F34 H0293 P0599 ; R24076 R24077  
 R01852 G3634 G3623 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29 F26 F34  
 H0293 P0599 ; S9999 S1070\*R ; S9999 S1172 S1161 S1070 ; S9999 S1183 S1161 S1070 ;  
 S9999 S1194 S1161 S1070 ; A999 A419 ; A999 A782 Polymer Index [3.2] 018 ; S9999  
 S1070\*R ; S9999 S1172 S1161 S1070 ; S9999 S1183 S1161 S1070 ; S9999 S1194 S1161

S1070 ; P0635\*R F70 D01 Polymer Index [3.3] 018 ; S9999 S1070\*R ; S9999 S1172 S1161  
S1070 ; S9999 S1183 S1161 S1070 ; S9999 S1194 S1161 S1070 ; P0839\*R F41 D01 D63  
Polymer Index [3.4] 018 ; R00338 G0544 G0022 D01 D12 D10 D51 D53 D58 D69 D82 C1  
7A ; S9999 S1070\*R ; S9999 S1172 S1161 S1070 ; S9999 S1183 S1161 S1070 ; S9999  
S1194 S1161 S1070 ; H0000 ; P1796 P1809 Polymer Index [3.5] 018 ; R00817 G0475  
G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D83 F12 ; S9999 S1070\*R ; S9999 S1172 S1161  
S1070 ; S9999 S1183 S1161 S1070 ; S9999 S1194 S1161 S1070 ; H0000 ; H0011\*R ;  
P0088 ; P0102 Polymer Index [3.6] 018 ; Q9999 Q9132

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-006964

Non-CPI Secondary Accession Numbers: N1997-017540

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